Claims:

1	1. Process for the manufacture of optical fibers comprising:	
2	(a) preparing an optical fiber preform,	
3	(b) heating the preform to the softening temperature, and	
4	(c) drawing an optical fiber from the preform	
5	the invention characterized in that the optical fiber preform is produced by:	
6	(i) preparing a porous silica body of silica particles,	
7	(ii) heating the porous silica body in a fluorine atmosphere for a	
8	period of 10 - 240 minutes to predeposit fluorine on the silica	
9	particles, and	
10	(iii) heating the porous silica body at a temperature greater than	
11	1300 $^{\rm O}$ C, in an atmosphere devoid of fluorine, to consolidate the	
12	porous silica body into a preform.	
1	2. The process of claim 1 wherein the fluorine atmosphere comprises SiF ₄ .	
1	3. The process of claim 2 wherein the fluorine atmosphere is greater than 109	
2	SiF ₄ .	
1	4. Process for the manufacture of optical fiber preforms comprising:	
2	(a) preparing a porous silica body of silica particles, said porous silica	
3	body having a weight greater than 5 kg,	

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- (b) heating the porous silica body to a temperature in the range 5 800-1000 $^{\rm O}$ C in a fluorine atmosphere for a period of 10 - 240 minutes to predeposit fluorine on the silica particles, and
 - (c) heating the porous silica body at a temperature greater than 1300 ^OC, in an atmosphere devoid of fluorine, to consolidate the porous silica body.
 - 5. The process of claim 4 wherein the fluorine atmosphere comprises SiF₄.